

THERMAL WATER TREATMENT

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ABSTRACT

10 A thermal treatment system for supplying thermally conditioned or
purified water for human or animal consumption, industrial processes,
environmental containment, or removal of foreign species. The water purifier
includes a heat exchanger for exchanging heat between outgoing thermally
conditioned or purified water and incoming makeup water; a water heater is
connected to the heat exchanger so as to receive pre-heated incoming
15 makeup water, where the water heater subsequently heats the incoming
preheated makeup water to a set-point temperature in the case of thermally
conditioned water and for purified water also holds the water for a period of
time sufficient to inactivate selected organisms to a predetermined level. The
heat exchanger has one or more treated water outlets for supplying thermally
20 conditioned or purified water at selected temperatures.